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1	<input type="checkbox"/>	<input type="checkbox"/>	US 6658398 B1	20031202	120
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6073127 A	20000606	135
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6067538 A	20000523	160
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6067537 A	20000523	161

	Title	Current OR	Current XRef	Retrieval Classif
1	Goal based educational system utilizing a remediation object	706/47	706/45; 706/46	
2	System, method and article of manufacture for a goal based system with dynamic feedback information	706/45	706/47	
3	System, method and article of manufacture for a simulation enabled focused feedback tutorial system	706/47	434/118; 705/40; 706/46	
4	System, method and article of manufacture for a goal based educational system with support for dynamic personality feedback	706/47	434/118; 705/40; 706/11	

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1	Bertrand, Benoit Patrick et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6658398	<input type="checkbox"/>
2	Lannert, Eric Jeffrey et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6073127	<input type="checkbox"/>
3	Zorba, Alexander et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6067538	<input type="checkbox"/>
4	O'Connor, Martha Torrey et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6067537	<input type="checkbox"/>

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☐ Check to search within this result set**Results Key:****JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**1 An accelerator operator's companion for the McMaster University M d FN tandem accelerator***Berg, D.; Poehlman, W.F.S.;*

Nuclear Science, IEEE Transactions on , Volume: 36 , Issue: 4 , Aug. 1989

Pages:1409 - 1417

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1 Knowledge-based interface to manufacturing computer systems

D. Wilson, D. O. Knight

June 1988 Proceedings of the first international conference on Industrial and engine
and expert systems - Volume 2

Full text available: pdf(571.40 KB)

Additional Information: full citation, references

2 An object-oriented framework for interactive data graphics

Robert L. Young

December 1987 ACM SIGPLAN Notices , Conference proceedings on Object-oriented
applications, Volume 22 Issue 12

Full text available: pdf(1.44 MB)

Additional Information: full citation, abstract, references, c

Ida is an object-oriented framework for interactive data graphics. It can be usec
integrated into application user interfaces. Ida's model of graphics is composed
Assemblies, Data Sources, Data Displays, and Scales. Presentations and assem
distinction is maintained between drawing and the management of already draw

3 Interface design issues for advice-giving expert systems

John M. Carroll, Jean McKendree

January 1987 Communications of the ACM, Volume 30 Issue 1

Full text available: pdf(2.28 MB) Additional Information: full citation, abstract, references, citings, index terms


Advice giving could become the first successful domain for intelligent interfaces.

4 ACE: a color expert system for user interface design

Barbara J. Meier

January 1988

Proceedings of the 1st annual ACM SIGGRAPH symposium on User

Full text available:  pdf(1.56 MB)

Additional Information: full citation, abstract, references, c

Color is used in computer graphics to code information, to call attention to items; aesthetics, but using color effectively and tastefully is often beyond the abilities study of color crosses many disciplines, and many aspects, such as human color We compiled a comprehensive set of guidelines for the proper use of color, but the a ...

5 Responding to "20HUH?": answering vaguely articulated follow-up q

J. D. Moore

March 1989 ACM SIGCHI Bulletin , Proceedings of the SIGCHI conference on Human the mind, Volume 20 Issue SI

Full text available:  pdf(592.08 KB)


Additional Information: full citation, abstract, references,

Expert and advice-giving systems produce complex multi-sentential responses to novice/expert dialogues indicate that novices often do not understand an expert well-formulated follow-up question. Thus systems must be able to provide further articulated questions. However, current systems cannot clarify misunderstood explanations. In this paper we descr ...

6 Using critics to empower users

Gerhard Fischer, Andreas C. Lemke, Thomas Mastaglio, Anders I. Morch

March 1990 Proceedings of the SIGCHI conference on Human factors in computing

Full text available:  pdf(1.29 MB)

Additional Information: full citation, abstract, references, ci

We describe the critiquing approach to building knowledge-based interactive systems in their problem solving and learning activities. The challenges for the next generation provide a context for the development of this paradigm. We discuss critics from problems of high-functionality computer systems, of providing a new class of systems applicati ...

7 Survey of expert critiquing systems: practical and theoretical frontiers

Barry G. Silverman

April 1992 Communications of the ACM, Volume 35 Issue 4

Full text available:  pdf(2.84 MB) Additional Information: full citation, references, citings, index terms


Keywords: critics, expert critiquing systems

8 Expert systems: perils and promise

D. G. Bobrow, S. Mittal, M. J. Stefik

September 1986

Communications of the ACM, Volume 29 Issue 9

Full text available:  pdf(1.77 MB)

Additional Information: full citation, abstract, references, citing:


Based on a review of some actual expert-system projects, guidelines are proposed for developing, testing, and managing the development process.

9 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst

December 2001

ACM Computing Surveys (CSUR), Volume 33 Issue 4

Full text available:  pdf(2.31 MB)

Additional Information: full citation, abstract, references, citing:

Usability evaluation is an increasingly important part of the user interface design process. It can be expensive in terms of time and human resources, and automation is therefore being explored as an alternative to existing approaches. This article presents an extensive survey of usability evaluation approaches, a new taxonomy that emphasizes the role of automation. The survey analyzes existing approaches to usability evaluation and ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation

10 Fast prototyping of a goal-oriented simulation environment system

David A. Umphress, Udo W. Pooch, Murat Tanik

February 1988

Proceedings of the 1988 ACM sixteenth annual conference on Conference on Computer Graphics and Image Processing

Full text available:  pdf(1.16 MB)

Additional Information: full citation, abstract, references, citing:

The goal-oriented Simulation Environment Systems (SES) architecture "provides a fast prototyping process by providing a more natural scheme of model construction and experimental evaluation languages. SES is a collection of integrated tools that allows users to focus on peripheral activities of programming. Interactive software plays a vital role in representing and describing the various information ...

11 An example of management training in expert systems: SBA loan evaluation

Sudesh M. Duggal, Paul R. Popovich

September 1990

Proceedings of the 1990 ACM SIGBDP conference on Trends and Directions in Database Management

Full text available:  pdf(2.19 MB)

Additional Information: full citation, references, index terms

12 Spoken dialogue technology: enabling the conversational user interface

March 2002

ACM Computing Surveys (CSUR), Volume 34 Issue 1

Full text available:  pdf(987.69 KB)

Additional Information: full citation, abstract, references,

Spoken dialogue systems allow users to interact with computer-based applications by using natural spoken language. The origins of spoken dialogue systems can be traced to research in the 1950s concerned with developing conversational interfaces. However, with major advances in speech technology, that large-scale working systems have been introduced into commercial cases, introduced into commercial ...

Keywords: Dialogue management, human computer interaction, language generation, recognition, speech synthesis

13 An architecture for expert user interface and design management

J. Lowgren

November 1989 Proceedings of the 2nd annual ACM SIGGRAPH symposium on User Interface Design

Full text available:  pdf(1.11 MB)

Additional Information: full citation, abstract, references, citation

From a user interface point of view, expert systems are different from applications. The process of the system often defines the dialogue structure. This has several advantages due to the lack of separation between functionality and user interface. This paper proposes an expert system user interface as separate from the reasoning process of the system. ...

14 Goal driven simulation intelligent back ends: a state of the art review

Louis A. Molina, Carlos Gandarillas, Martha A. Centeno

November 1996 Proceedings of the 28th conference on Winter simulation


Full text available:  pdf(575.76 KB)

Additional Information: full citation, references

15 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies

Full text available:  pdf(4.21 MB)

Additional Information: full citation, abstract, reference:

Understanding distributed applications is a tedious and difficult task. Visualization is often used to obtain a better understanding of the execution of the application. An event tracer developed at the University of Waterloo. However, these diagrams do not provide the user with the desired overview of the application. In our experience, the use of non-trivial communication patterns ...

16 Design of an expert system for utilization research

A Zvieli, S K MacGregor, J Z Shapiro

December 1986 Proceedings of the ACM SIGART international symposium on Metho

Full text available:  pdf(935.56 KB)

Additional Information: full citation, abstract, referenc

This work is concerned with the initial design of an expert system for increasing sciences. It is an empiric fact that evaluation findings in the social science have An expert System for Utilization of Research (SUR) may serve both as a research utilization research) and later as an aid to evaluators in the field. The system wi utilizat ...

17 A natural language based legal expert system for consultation and tutoring

F. Haft, R. P. Jones, Th. Wetter

December 1987 Proceedings of the first international conference on Artificial inte

Full text available:  pdf(1.08 MB)


Additional Information: full citation, abstract, references, cit

The LEX (Legal Expert System) project is one of the European based projects in both a professional and a teaching perspective. The project is a cooperative pro and IBM Germany and developed out of research into a User Specialty Language queries to a relational data base. The LEX system has as its main components a and logic representation ...

18 IS '97: model curriculum and guidelines for undergraduate degree program

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E.

December 1997 ACM SIGMIS Database , Guidelines for undergraduate degree progr for undergraduate degree programs in information systems, Volume

Full text available:  pdf(7.24 MB)

Additional Information: full citation

19 Seeding expert system technology: a practical approach

Lynne Marie Davis

February 1988 Proceedings of the 1988 ACM sixteenth annual conference on Cor

Full text available:  pdf(574.10 KB)

Additional Information: full citation, abstract, referenc

Introducing a new technology into an established environment is often slow and conventional programming laboratory got started with expert systems through a resulted in three prototype expert systems, which are now used as learning tool techniques used to capture the expertise were unique: the first system's source system's sou ...

20 The role of critiquing in cooperative problem solving

Gerhard Fischer, Andreas C. Lemke, Thomas Mastaglio, Andres I. Morch

April 1991 ACM Transactions on Information Systems (TOIS), Volume 9 Issue

Full text available:  pdf(2.05 MB)

Additional Information: full citation, references, citings, i

Keywords: cooperative problem-solving systems, critics, critiquing, design envir
systems, intelligent support systems

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21 DORUS: an architecture for dynamic optimal resource utilization systems

S. Ulug, B. A. Bowen, A. Acheson

June 1989 Proceedings of the second international conference on Industrial and eng
intelligence and expert systems - Volume 1

Full text available: pdf(718.77 KB)

Additional Information: full citation, abstract, referen

A number of problems such as planning, scheduling and system maintenance ha
and the need to optimize the use of these resources. The Dynamic Optimal Resc
architecture suitable for the construction of expert systems for these problem d
data but for problem solving strategies which might change according to time or
will respond to a predefined se ...

22 An expert system for diagnosis and maintaining the AT&T 3B4000 compute

James A. Kavicky, George D. Kraft

June 1989 Proceedings of the second international conference on Industrial and eng
intelligence and expert systems - Volume 1

Full text available: pdf(1.09 MB)

Additional Information: full citation, abstract, reference

Major computer vendors have concentrated on enhancing diagnostic and mainta
systems to permit a prompt repair interval with a minimal amount of technical s
an architectural description for an automated diagnostic and recovery expert sy:
domain knowledge of both the AT&T 3B4000 Computer and the AT&T technical :
3B4000 Computer as a vehicle for ...

23 The ISA expert system: a prototype system for failure diagnosis on the space shuttle

Christopher A. Marsh

June 1988 Proceedings of the first international conference on Industrial and engine and expert systems - Volume 1

Full text available:  pdf(1.27 MB)

Additional Information: full citation, abstract, reference

The Mission Operations Directorate (MOD) at the Johnson Space Center (JSC) is critical to the mission success of manned space flights. The MITRE Corporation, working with the Johnson Space Center Operations Management System (OMS) to automate many aspects of flight control systems. To help develop these requirements, the Integrated Status Assessment System (ISAS) is used to perform Station-wide failure analysis.

24 Requirements interaction management

William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov

June 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 2

Full text available:  pdf(1.24 MB)

Additional Information: full citation, abstract, reference

Requirements interaction management (RIM) is the set of activities directed toward the disposition of critical relationships among sets of requirements, which has become a key part of engineering. This survey looks at the evolution of supporting concepts and their issues-based framework for reviewing processes and products, and applies the framework to state-of-the-art. Finally, it presents seven research directions.

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis driven design, dependency analysis, distributed intentionality, interaction analysis, architecture, system specification, viewpoints

25 Managing expert systems projects: factors critical for successful implementation

Dave Dibble, Robert P Bostrom

March 1987 Proceedings of the conference on The 1987 ACM SIGBDP-SIGCPR Conference on Database Management Systems

Full text available:  pdf(3.00 MB)

Additional Information: full citation, abstract, references, citations

Over the last decade, the Artificial Intelligence research community has successfully developed "expert" systems capable of solving problems in limited domains. Such an approach to problem solving, a number of firms have moved toward incorporating such a portfolio of information system tools. The scarcity and geographic limitations of human resources, and the tirelessness of machines, are the motivating factors.

26 Knowledge based systems versus thesaurus: an architecture problem about

B. Defude

July 1984 Proceedings of the 7th annual international ACM SIGIR conference on Research in information retrieval

Full text available:  pdf(637.92 KB)

Additional Information: full citation, abstract

The use of expert systems (ES) within information retrieval systems (IRS) seems to improve the query process. Nevertheless we must examine what knowledge we need. We will look at the kernel of which knowledge : for this, we must define it larger than in classical IF. In the principal features of a query ES, we discuss about the relationship between the problem is to determine ...

27 QUE: an expert system explanation facility that answers "why not" types of

Cynthia J. Martincic

October 2003 The Journal of Computing in Small Colleges, Volume 19 Issue 4

Full text available:  pdf(118.07 KB)


Additional Information: full citation, abstract, references

Despite the many advances in many aspects of explanation provision, most explanation facilities are limited to answering only a subset of the types of questions that users may ask. This paper describes facilities for many different types of users of expert systems including expert system developers, end-users and students using Intelligent Tutoring Systems (ITSs) with expert systems. The problem is not commonly addressed by ...

28 Determining the functionality features of an intelligent interface to an information

N. J. Belkin, P. G. Marchetti

December 1989 Proceedings of the 13th annual international ACM SIGIR conference on Research in information retrieval

Full text available:  pdf(2.42 MB)

Additional Information: full citation, abstract, references, citations

In this paper, we propose a method for specifying the functionality of an intelligent interface to information retrieval systems, and for implementing those functions in an operational environment. We propose a progressive, three-stage model of intelligent information support; a high-level specification of the information retrieval problem; a low-level specification of the host system functionality; and the system functions ...

29 Expert systems for configuration at Digital: XCON and beyond

Virginia E. Barker, Dennis E. O'Connor, Judith Bachant, Elliot Soloway

March 1989 Communications of the ACM, Volume 32 Issue 3

Full text available:  pdf(2.29 MB)

Additional Information: full citation, abstract, references, citations


Members of Digital Equipment Corporation's team of expert system experts reflect on the lessons learned in designing, and building a core of configuration systems

30 A collaborative fuzzy expert system for the Web

Tod A. Sedbrook

June 1998

ACM SIGMIS Database, Volume 29 Issue 3

Full text available:  pdf(1.54 MB)

Additional Information: full citation, abstract, in

A convergence of Internet and fuzzy logic technologies provides an opportunity developing, refining, and testing knowledge-based systems. Internet technology restraints, and fuzzy rule bases are easier to understand and maintain. This paper prototype for developing, delivering, and maintaining expert systems on the Web components allowed experts to ...


Keywords: Internet, collaboration, design, expert system, fuzzy logic

31 Software reuse

Charles W. Krueger

June 1992

ACM Computing Surveys (CSUR), Volume 24 Issue 2

Full text available:  pdf(4.96 MB)

Additional Information: full citation, abstract, references, cit

Software reuse is the process of creating software systems from existing software from scratch. This simple yet powerful vision was introduced in 1968. Software reuse is standard software engineering practice. In an attempt to understand why, researchers have studied software reuse and in the obstacles to implementing it. This paper surveys the challenges found in the ...

Keywords: abstraction, cognitive distance, software reuse

32 Familiar contexts, new technologies: adapting online help to simulate an expert

Hilari Kleine Jones

October 1997 Proceedings of the 15th annual international conference on Computer

Full text available:  pdf(645.01 KB)

Additional Information: full citation, references, index terms

33 Applying expert systems to health care management

Glenn J. Fala, Kathryn T. Clayton, Diane M. Masciantonio

February 1995

Proceedings of the 1995 ACM symposium on Applied computing

Full text available:  pdf(614.67 KB)


Additional Information: full citation, references

Keywords: artificial intelligence, expert systems, health care applications, knowl

34 A review of barriers to expert system diffusion

Donald E. Hardaway, Richard P. Willi

September 1990 Proceedings of the 1990 ACM SIGBDP conference on Trends and dir

Full text available:  pdf(1.79 MB)

Additional Information: full citation, references, citings, index

35 Using GOMS for user interface design and evaluation: which technique?

Bonnie E. John, David E. Kieras

December 1996 ACM Transactions on Computer-Human Interaction (TOCHI), V

Full text available:  pdf(272.60 KB)

Additional Information: full citation, abstract, references, citi

Since the seminal book, The Psychology of Human-Computer Interaction, the G widely known theoretical concepts in human-computer interaction. This concept extend the original work and has been used in real-world design and evaluation previous work on GOMS to provide an integrated view of GOMS models and how describe the majo ...

Keywords: GOMS, cognitive modeling, usability engineering

36 Loge–expert: from a legal expert system to an information system fc

Louis-Claude Paquin, François Blanchard, Claude Thomasset

May 1991 Proceedings of the third international conference on Artificial intelligence


Full text available:  pdf(745.91 KB)

Additional Information: full citation, references, index terms

37 Learning by doing with simulated intelligent help

John Carroll, Amy Aaronson

August 1988 Communications of the ACM, Volume 31 Issue 9

Full text available:  pdf(5.00 MB)

Additional Information: full citation, abstract, references, citing

Intelligent advisory interfaces will afford new approaches to help and training pr usability of such facilities. This recent study indicates that although intelligent he specific potential problems.

38 Technical papers: Capturing interest through inference and visualization: on recommender systems

Stuart E. Middleton, Nigel R. Shadbolt, David C. De Roure

October 2003

Proceedings of the international conference on Knowledge capti

Full text available:  pdf(362.41 KB)

Additional Information: full citation, abstract, referen

Tools for filtering the World Wide Web exist, but they are hampered by the diffic a diverse and dynamic environment. Recommender systems help where explicit difficult to formulate, learning the type of thing users like over a period of time.' user profiling in the context of a recommender system. Building on previous wor and the use of ext ...

Keywords: knowledge capture, machine learning, ontology, profile visualization, user profiling

39 Principles of mixed-initiative user interfaces

Eric Horvitz

May 1999 Proceedings of the SIGCHI conference on Human factors in computing sy:

Full text available:  pdf(1.30 MB)

Additional Information: full citation, references, citings, index

Keywords: UI design, decision theory, direct manipulaton, intelligent agents, pro

40 Towards a diagnostic instrument for assessing the quality of expert system:

David W. Conrath, Ravi S. Sharma

September 1990 Proceedings of the 1990 ACM SIGBDP conference on Trends and dir

Full text available:  pdf(1.27 MB)

Additional Information: full citation, references, index terr

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41 A model of multimedia information retrieval

Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia

September 2001

Journal of the ACM (JACM), Volume 48 Issue 5

Full text available: pdf(5.69 MB)

Additional Information: full citation, abstract, reference

Research on multimedia information retrieval (MIR) has recently witnessed a boom. This research trend is its simultaneous but independent materialization within several resulting richness of paradigms, methods and systems may, on the long run, retard progress. The primary goal of this study is to promote an integration of multimedia contributing a conceptual model ...


Keywords: Description logics, fuzzy logics, multimedia information retrieval

42 A perceptual assistant to do sound equalization

Dale Reed

January 2000

Proceedings of the 5th international conference on Intelligent use

Full text available:  pdf(1.68 MB)

Additional Information: full citation, abstract, reference

This paper describes an intelligent interface to assist in the expert perceptual task commonly done by a sound engineer in a recording studio, live concert setting, a system uses inductive learning to acquire expert skill using nearest neighbor pattern matching. A sound equalization expert system, which learns to proficiently adjust the timbre, brightness, darkness, and smooth ...

Keywords: audio equalization, expert systems, intelligent interfaces, learning, pattern matching

43 Session 5: novel interaction: MAUI: a multimodal affective user interface

Christine L. Lisetti, Fatma Nasoz

December 2002

Proceedings of the tenth ACM international conference on Mul

Full text available:  pdf(377.18 KB)

Additional Information: full citation, abstract, reference

Human intelligence is being increasingly redefined to include the all-encompassing ability to be considered 'pure reason'. With the recent progress of research in computer vision, speech, bio-feedback, real-time recognition of affect will enhance human-computer interaction. Further progress in the development of new emotion theories. In this article, we discuss how we closely interact with co ...

Keywords: affect recognition, emotions, intelligent interfaces, interface agent

44 Is knowing more really better?: effects of system development information in

Jeff A. Bauhs, Nancy J. Cooke

April 1994

Conference companion on Human factors in computing systems

Full text available:  pdf(226.78 KB)


Additional Information: full citation, reference

45 Launching the new era

Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi

March 1993

Communications of the ACM, Volume 36 Issue 3


Full text available:  pdf(3.45 MB)

Additional Information: full citation, references, index terms, keywords

46 Search improvement via automatic query reformulation

Susan Gauch, John B. Smith

July 1991 ACM Transactions on Information Systems (TOIS), Volume 9 Issue 3

Full text available:  pdf(2.28 MB)


Additional Information: full citation, references, citings, index

Keywords: Expert Systems, full-text information retrieval, online search assistar

47 Eliciting software process models with the E3 language

Maria Letizia Jaccheri, Gian Pietro Picco, Patricia Lago

October 1998 ACM Transactions on Software Engineering and Methodology (TOSEI)

Full text available:  pdf(1.48 MB)

Additional Information: full citation, abstract, references, citi

Software processes are complex entities that demand careful understand ing an quality of the resulting product. A necessary step toward the improvement of ar description of the entities involved and of their mutual relationships. Process mc description under the shape of a software process model. The model is construc process ...

Keywords: associations, process model elicitation, software process modeling

48 Testing a walkthrough methodology for theory-based design of walk-up-and

Clayton Lewis, Peter G. Polson, Cathleen Wharton, John Rieman

March 1990 Proceedings of the SIGCHI conference on Human factors in computing

Full text available:  pdf(872.87 KB)

Additional Information: full citation, abstract, references,

The value of theoretical analyses in user interface design has been hotly debate apply current theoretical models within the constraints of real-world developmer context of bringing the theoretical ideas within a model of exploratory learning [alternative interfaces for walk-up-and-use systems. We derived a “cognit systematically evalu ...

49 PEARL: an expert system for power supply layout

Edward J. DeJesus, James P. Callan, Curtis R. Whitehead

July 1986 Proceedings of the 23rd ACM/IEEE conference on Design automation

Full text available:  pdf(830.57 KB)


Additional Information: full citation, abstract, referenc

The use of artificial intelligence (AI) expert systems technology has demonstrat the computer aided design (CAD) field. This paper describes how domain specifi conventional CAD architecture to develop an expert system. The combination re assistance to printed wiring board (PWB) layout designers. This CAD tool focuse power suppl ...

50 Modelling database based expert systems at the conceptual level

Ramin Yasdi

March 1985 Proceedings of the 1985 ACM thirteenth annual conference on Comp

Full text available:  pdf(1.46 MB)

Additional Information: full citation, abstract, reference:

In a conceptual modelling environment a model is given for analysing complex r Knowledge Model (CKM), represented by a Graphical Representation and a Form Representation consist of 3 graphs: Conceptual Requirement Graph, Conceptual Structure Graph. This graphs are developed by consulting the expert during the transformed into first- order predicate logic t ...

51 Improving performance of an electrical power expert system with genetic al

Mike Goodloe, Sara Graves

June 1988 Proceedings of the first international conference on Industrial and engine and expert systems - Volume 1

Full text available:  pdf(1.57 MB)

Additional Information: full citation, abstract, reference

Nickel cadmium batteries are an important source of power for aerospace applic developed at the Marshall Space Flight Center (MSFC) for use with the Hubble S been built at MSFC to aid in that development. In addition, the Nickel Cadmium developed by Martin Marietta Corporation to assist NASA engineers in battery m extension to NICBES which ...

52 An impact analysis method for safety-critical user interface design

Julia Galliers, Alistair Sutcliffe, Shailey Minocha

December 1999 ACM Transactions on Computer-Human Interaction (TOCHI), V

Full text available:  pdf(248.35 KB)

Additional Information: full citation, abstract, references, citi

We describe a method of assessing the implications for human error on user inte previous work we have proposed a taxonomy of influencing factors that contribu the taxonomy are combined into a mathematical and causal model for error, rep The BBN quantifies error influences arising from user knowledge, ability, and the factors describin ...

Keywords: Bayesian belief networks, human error, safety-critical, scenario-base

53 Supporting interactive information retrieval through relevance feedback

Jürgen Koenemann

April 1996 Conference companion on Human factors in computing systems: commo

Full text available:  pdf(227.18 KB)

Additional Information: full citation, references, index terms

54 Noncommand user interfaces

Jakob Nielsen

April 1993 Communications of the ACM, Volume 36 Issue 4

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55 A personal news agent that talks, learns and explains

Daniel Billsus, Michael J. Pazzani

April 1999 Proceedings of the third annual conference on Autonomous Agents

Full text available:  pdf(1.06 MB) Additional Information: full citation, references, citings, index terms

Keywords: human-computer interaction, information agents, machine learning,

56 Predicting expert system success: an expert system for expert systems

Il-Yeol Song, Joseph LaGue

September 1990 Proceedings of the 1990 ACM SIGBDP conference on Trends and dir

Full text available:  pdf(1.78 MB) Additional Information: full citation, references, index terr

57 Full Technical Papers: Evolution of user interaction: the case of agent adel

W. Lewis Johnson, Erin Shaw, Andrew Marshall, Catherine LaBore

January 2003 Proceedings of the 2003 international conference on Intelligent us

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Animated pedagogical agents offer promise as a means of making computer-aid To achieve this, an agent must be able to interact with the learner in a manner the pedagogical goals of the learning environment. In this paper we describe ho pedagogical agent evolved through an iterative process of design and user testir students as they assess and ...

Keywords: interface agents, proactive and agent-based paradigms, social intellig

58 Connectionist expert systems

Stephan I. Gallant

February 1988 Communications of the ACM, Volume 31 Issue 2

Full text available:  pdf(1.88 MB) Additional Information: full citation, abstract, references, cil


Connectionist networks can be used as expert system knowledge bases. Further from training examples by machine learning techniques. This gives a way to aut for classification problems.

59 Human-computer interface development: concepts and systems for its mar

H. Rex Hartson, Deborah Hix

March 1989

ACM Computing Surveys (CSUR), Volume 21 Issue 1

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Additional Information: full citation, abstract, references, citings

Human-computer interface management, from a computer science viewpoint, for quality human-computer interfaces, including their representation, design, implementation, maintenance. This survey presents important concepts of interface management: modeling, representation, interactive tools, rapid prototyping, development methods. *Dialogue independence* is the ...

60 Session 7: user interface 2: End user touch searching for cancer therapy lit

A. S. Pollitt

June 1983 Proceedings of the 6th annual international ACM SIGIR conference on Research in information retrieval

Full text available:  pdf(589.26 KB)

Additional Information: full citation, abstract

This paper reviews work towards building an expert system for searching the cancer literature. A modified subset of the Medical Subject Headings (MeSH) has been stored on a network terminal. Searches, previously requested of the Oncology Information Service at the University of Toronto, to test out the principle of end user searching and the results compared with the results of the indexer. Original program developed ...

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